

# Solving Inequalities

$$\begin{array}{r} y+3 < 5 \\ -3 \quad -3 \\ \hline \end{array}$$

$$\boxed{y < 2}$$

check  
 $y+3 < 5$

$$1+3 < 5$$

$$4 < 5 \quad \checkmark$$

SADMEP  
$$\begin{array}{r} 3y+2 \geq 26 \\ -2 \quad -2 \end{array}$$

$$\begin{array}{r} 3y \geq 24 \\ \hline 3 \quad 3 \end{array}$$

$$y \geq 8$$

check  
PEMDAS

$$3y+2 \geq 26$$

$$3(8)+2 \geq 26$$

$$\begin{array}{r} 24+2 \geq 26 \\ 26 \geq 26 \quad \checkmark \end{array}$$

$$\begin{array}{r} y+3 = 5 \\ -3 \quad -3 \\ \hline \end{array}$$

$$\boxed{y = 2}$$

check

$$y+3 = 5$$

$$2+3 = 5$$

$$5 = 5 \quad \checkmark$$